	Application No.	Applicant(s)	•]
	10/707,559	WU ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Tarifur R. Chowdhury	2871	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in the community of the community o	his application. If not included ication will be mailed in due co	l ourse. THIS
1. This communication is responsive to <u>amendment filed on</u>	<u>08/18/05</u> .		
2. X The allowed claim(s) is/are <u>1-9,11,12 and 14-16</u> .	•		
3. X The drawings filed on 21 December 2003 are accepted b	y the Examiner.	·	
4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be substituted in the substitute of the priority of t	ve been received. ve been received in Application locuments have been received in "" of this communication to file a "MENT of this application. mitted. Note the attached EXAM ves reason(s) why the oath or of ust be submitted. rson's Patent Drawing Review (No In this national stage application reply complying with the required state of the stage application is deficient. (PTO-948) attached	iirements
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			oack) of
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMENT			ote the
Attachment(s) 1. X Notice of References Cited (PTO-892)	5. ☐ Notice of Info	rmal Patent Application (PTO	-152)
 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 			•
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	Paper No./M 3/08), 7. 🔯 Examiner's A	lail Date mendment/Comment tatement of Reasons for Allow	vance
of Biological Material	9. Other		

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Scott Margo on August 29, 2005.

The application has been amended as follows:

Claims 17 and 18 have been canceled.

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Election/Restrictions

Claim 1 is allowable. Accordingly, since claim 4 depends from claim 1, is no longer withdrawn and rejoined.

Allowable Subject Matter

- 1. Claims 1-9, 11, 12 and 14-16 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:
- 3. The prior arts of record do not anticipate or render obvious to one skilled in the art an in-plane switching mode liquid crystal display comprising various elements as claimed, more specifically the limitations such as a plurality of bumps formed beneath the first electrode and the second electrode for changing the distribution of the biased electric field to enhance the driving ability of the biased electric field and a conductive layer disposed on a surface of each bump, and wherein a longitudinal axis of the liquid crystal molecules is positioned along a second direction and is horizontally arranged between the two substrates, and an angle is formed between the second direction and the first direction, are considered novel.
- 4. USPAT 6,583,840 discloses an in-plane switching mode liquid crystal display device wherein a pixel electrode and a common electrode are alternatively formed on a plurality of bumps. Further, USPAT 6,351,300 discloses an in-plane switching mode liquid crystal display wherein a plurality of bumps is formed beneath the first electrode and the second electrode. USPAT 6,356,328 discloses an in-plane switching mode liquid crystal display wherein the pixel electrodes and the common electrodes are formed as projections. However, all of the reference alone or in combination with any other prior art references fail to teach or suggest that the electrodes being a protrusion

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elongated along a first direction and a second direction respectively and that the plurality of bumps change the distribution of the biased electric field as well as the limitation such as a longitudinal axis of the liquid crystal molecules is positioned along a second direction and is horizontally arranged between the two substrates, and an angle is formed between the second direction and the first direction.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R. Chowdhury whose telephone number is (571) 272-2287. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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TRC August 29, 2005

> TARIFUR R. CHOWDHURY PRIMARY EXAMINER